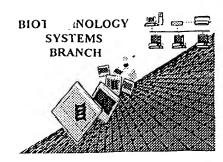
W WOOLMAN

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/509,449	- RECEIVED
Source:	1648	_ MAR 0 5 2001
Date Processed by STIC:	2-22-01	TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker



1648

RAW SEQUENCE LISTING DATE: 02/22/2001
PATENT APPLICATION: US/09/509,449 TIME: 12:05:50

Input Set : A:\ST25.txt

Output Set: N:\CRF3\02222001\I509449.raw

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3 <110> APPLICANT: Aoyagi, Katsumi
         Ohue, Chiharu
         Tida, Kumiko
         Yagi, Shintaro
 8 <120> TITLE OF INVENTION: Method for Measurement of Hepatitis C Virus
10 <130> FILE REFERENCE: 594.352USWO
12 <140> CURRENT APPLICATION NUMBER: 09/509.449
13 <141> CURRENT FILING DATE: 2000-03-28
15 <150> PRIOR APPLICATION NUMBER: JP-10-216094
16 <151> PRIOR FILING DATE: 1998-07-30
18 <150> PRIOR APPLICATION NUMBER: PCT/JP99/04129
19 <151> PRIOR FILING DATE: 1999-07-30
21 <160> NUMBER OF SEQ ID NOS: 12
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEO ID NO: 1
26 <211> LENGTH: 1.77
27 <21.2> TYPE: PRT
28 <213> ORGANISM: Hepatitis C virus
30 <400> SEQUENCE: 1
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33 1 5
                                        1.0
35 Phe Met Gly Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr 36 20 25 30
                                   25
38 Asn Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val
39
    35
                               40
41 Gly Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg 42 \phantom{-}50 \phantom{-}55 \phantom{-}60
44 Ala Thr Arg Lys Thr Ser Lys Arg Ser Gln Pro Arg Gly Gly Arg Arg
                     70
47 Pro Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro
50 Gly Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly
                                   105
                                                  1.10
51 100
53 Trp Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp
                             120
   115
56 Pro Arg His Arg Ser Arg Asn Val Gly Lys Val Tle Asp Thr Leu Thr 57 \phantom{-}130\phantom{0} 135 \phantom{-}140\phantom{0}
59 Cys Gly Phe Ala Asp Leu Met Gly Tyr Ile Phe Arg Val Gly Ala Phe
                      1.50
                                            155
62 Leu Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu
                                        170
63
                   1.65
65 Asp
68 <21.0> SEQ ID NO: 2
69 <211> LENGTH: 160
70 <212> TYPE: PRT
71 <213> ORGANISM: Hepatitis C virus
73 <400> SEQUENCE: 2
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Does Not Comply Corrected Diskette Needed

see p. 5

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PATENT APPLICATION: US/09/509,449
                                                   TIME: 12:05:50
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              Output Set: N:\CRF3\02222001\1509449.raw
75 Met Gly Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
76 1
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78 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln lie Val Gly
79
           20
                              25
                                                  30
81 Gly Val Tyr Leu Leu Pro Arg Gly Pro Arg Leu Gly Val Arg Ala
82
       35
                            40
                                             45
84 Thr Arg Lys Thr Ser Lys Arg Ser Gln Pro Arg Gly Gly Arg Arg Pro
  50
                      5.5
87 lle Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
88 65
                    70
                                     75
90 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
91
                85
                                   90
93 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
                                                                              RECEIVED
94 100
                         105
                                                110
96 Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
97 115
                          120
                                             125
                                                                                  MAR 0 5 2001
99 Gly Phe Ala Asp Leu Met Gly Tyr Tle Phe Arg Val Gly Ala Phe Leu
100 130 135
                                  140
102 Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
                                                                            TECH CENTER 1600/2900
103 145
                     150
105 <210> SEO ID NO: 3
106 <211> LENGTH: 20
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence.
113 <400> SEQUENCE: 3
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116 1 5
                                    10
118 Leu Pro Arg Arg
119 20
121 <210> SEQ ID NO: 4
122 <211> LENGTH: 10
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence.
129 <400> SEOUENCE: 4
131 Gly Pro Arg Leu Gly Val Arg Ala Thr Arg
                 5
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 21
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence.
142 <400> SEQUENCE: 5
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DATE: 02/22/2001

RAW SEQUENCE LISTING

5

Input Set : A:\ST25.txt Output Set: N:\CRF3\02222001\1509449.raw 147 Ser Arg Asn Val Gly 20 150 <210> SEQ ID NO: 6 151 <211> LENGTH: 20 152 <212> TYPE: PRT 153 <213> ORGANISM: Artificial 155 <220> FEATURE: 156 <223> OTHER INFORMATION: Fused polypeptide including Hepatitis C virus sequence. 158 <400> SEQUENCE: 6 160 Asp Pro Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu 161 1 163 Thr Cys Gly Phe 20 164 166 <210> SEQ ID NO: 7 167 <211> LENGTH: 24 168 <212> TYPE: DNA 169 <213> ORGANISM: Artificial 171 <220> FEATURE: 172 <223> OTHER INFORMATION: Primer for polymerase chain reaction. 174 <400> SEQUENCE: 7 175 gaattcatgg gcacgaatcc taaa 178 <210> SEQ ID NO: 8 179 <211> LENGTH: 21 180 <212> TYPE: DNA 181 <213> ORGANISM: Artificial 183 <220> FEATURE: 184 <223> OTHER INFORMATION: Primer for polymerase chain reaction. 186 <400> SEQUENCE: 8 187 ttagtectec agaaccegga c 190 <210> SEQ ID NO: 9
191 <211> LENGTH: 16 192 <212> TYPE: PRT 193 <213> ORGANISM: Artificial 195 <220> FEATURE: 196 <223> OTHER INFORMATION: Portion of Hepatitis C virus sequence. 198 <400> SEQUENCE: 9 200 Thr Asn Arg Arg Pro Gln Asp Val Lys. Phe Pro Gly Gly Gln Gle Ile 201 1 203 <210> SEQ ID NO: 10 204 <211> LENGTH: 1197 205 <212> TYPE: DNA ... 206 <213> ORGANISM: Artificial 208 <220> FEATURE: 209 <223> OTHER INFORMATION: Nucleotide sequence coding for chimeric antigen. 212 <221> NAME/KEY: CDS 213 <222> LOCATION: (1)..(1188) 215 <400> SEQUENCE: 10 216 gaa tto acc aaa gtg ccg gtt get tat gcg gcc aaa ggt tat aag gtc

DATE: 02/22/2001

TIME: 12:05:50

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,449

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/509,449 DATE: 02/22/2001 TIME: 12:05:50

Input Set : A:\ST25.txt
Output Set: N:\CRF3\02222001\I509449.raw

217 218		Phe	Thr	Lys	Val 5	Pro	Val	Ala	туг	Ala 10	Ala	Lys	Gly	Туг	Lys 15	Val	
220	cta	att	cha	gac	cca	agc	att	acc	age	acc	cta	aat	ttc	aac	aca	tat	96
						Ser											
	Lieu	V 41.	Lieu		Pag	361	var	Ala		1.111	neu	Gry	rne		MIG	TÀT	
222				20					25					30			
	_	•	-			ggt						-	-				144
225	Leu	ser	Lys	Ala	His.	Gly	Val	Asu	Pro	Asn	ile	Arg	Thr	Gly	Lle	Arg	
226			35					40					45				
228	acc	gtt	acc	acc	ggt	gct	ccg	gtg	acc	tat	tcc	acc	tac	ggt	aaa	tac	192
229	Thr	Val	Thr	Thr	Glv	Ala	Pro	Val.	Thr	Tyr	ser	Thr	Tyr	Gly	Lys	Tyr	
230		50			-		55			-		60	-	-	-	-	
	eta		aac	aac	aat	tgc		aac	aat	aca	tac		ata	ato	aga	tet	240
			**			Cys	**										2.10
		Ald	ASD	GIA	Grà	_	A.1.0	GIA	GIY	Ara	_	ASP	Va.L	rre	GIA		
234						70					75					80	
						ctg											288
237	Gly	Glu	GLu	Val.		Leu	ser	Asn	Thr	-	Glu	Va1	Pro	Phe		Gly	
238					85					90					95		
240	cgc	geg	atc	ccg	atc	gaa	geg	at.c	aaa	gge	ggt	cgc	cat	ctg	gtt	t.t.c	336
241	Arq	Ala	Hle	Pro	Ile	Glu	Ala	Ile	Lys	Gly	Gly	Arg	Hi.s	Leu	Val	Phe	
242	-			100					105		-			110			
	tac	cat	age	aaq	gag	aaa	tac	gat	gaa	cta	aca	age	aca	cta	ticc	aga	384
						Lys						_		_			
246	Cys	11 3	1.15	my 3	(11 u	1373	C. y. 3	120	02.0	isc u	713.G	OC.L	125	tica	DC1.	0.2.1	
									4								432
						gtg											432
	Leu	_	Leu	ASņ	Ala	Va.l		Pne	Tyr	Arg	GIA		Asp	vaı.	ser	rre	
250		130					1.35					140					
						gat											480
253	Ile	Pro	Thr	G l.n	Gly	Asp	Va.l	٧a l.	Tle	Va l	Ser	Thr	Asp	Λla	Leu	Met	
254	145					150					155					160	
256	acc	ggt.	ttt	acc	qqc	gat	ttt	gac	tca	gtg	gtc	gac	tgt	aac	aca	tgc	528
257	Thr	Ğĺv	Phe	Thr	Glv	Asp	Phe	Asp	Ser	Va L	val	Asp	Cvs	Asn	Thr	Cys	
258					165	-		_		170		-	-		175	-	
	atc	acc	can	gga		gga	cta	αta	age		aca	age	cat	ata		tac	576
						Glv											570
262	тте	1111	GIII	180	261	GLY	Leu	Val	185	FIIC	ALG	361	птэ	190	110	171	
																	c 2 4
			-		_	caa	_	_	-			_	_	-			624
	TTe	G L u		GTÀ	Met	Gln	Leu		GLu	G.Ln	Phe	Lys		ьys	ser	Leu	
266			195					200					205				
268	ggt	ctg	ctg	cag	acc	gcg	acc	aaa	cag	gcg	gag	gcg	gcc	gcc	ccg	gtg	672
269	Gly	Leu	Leu	G l.n	Thr	Ala	Thr	Lys	GIn	Ala	GLu	Ala	Ala	λla	Pro	Va.l	
270		210					2.15					220					
272	att	aac	acc	ccq	aaa	age	cqc	cqt	ccq	qaa	qqt	cqt	qcc	taq	qcq	caa	720
						ser											
274						230		,	ŕ		235	,	-		-	240	
		aat	acc	atc	atc	ctg	age	aat	cat	cca		att	ata	cca	gat		768
						_	_		-	_		-	-	-	_	_	, 50
	STO	GTÅ	LHIT	TTG		Leu	Ser	arl	Ard		A.I.d	val	AGT	P.1.0		ALG	
278					245					250					255		02.5
						gaa											81.6
281	G l.u	Val.	Leu	Ty.r	Gln	Glu	Phe	Leu	Glu	A l.a	se.r	Arg	Ala	A.la	Leu	Ile	

DATE: 02/22/2001. RAW SEQUENCE LISTING PATENT APPLICATION: US/09/509,449 TIME: 12:05:50 Input Set : A:\ST25.txt Output Set: N:\CRF3\02222001\I509449.raw 282 260 265 864 284 gan gag ggg can egg ata gee gag atg etg ang tee ang ate eng gge 285 Glu Glu Gly Gln Arg Ile Ala Glu Met Leu Lys Ser Lys Ile Gln Gly 275 280 285 286 912 288 ttu ctg eag caa gcc tcc aag cag gcc caa gac ata aaa atc gac ggt 289 Leu Leu Gln Gln Ala Ser Lys Gln Ala Gln Asp lle Lys fle Asp Gly 295 292 acc ctg att att ccg aaa gat cgt cgc agc acc ggt aaa agc tgg ggt 960 293 Thr Leu Ile Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly 315 294 305 310 296 aaa ccg ggc tte etc ate gat age ttg cat ate aac cag ega gee gte 1008 297 Lys Pro Cly Phe Leu Ile Asp Ser Leu His Lle Asn Gln Arg Ala Val 325 330 1056 300 gtt gca ccg gac aag gag gtc ctt tat gag gct ttt gat gag atg gag 301 Val Ala Pro Asp Lys Glu Val Leu Tyr Glu Ala Phe Asp Glu Met Glu 345 340 304 ctc gcc atg ggc acc aac ccg aaa ccg gag cgt aaa agc aag cgt aac 305 Leu Ala Met Gly Thr Asn Pro Lys Pro Glu Arg Lys Ser Lys Arg Asn 306 355 360 365 1152 308 acc aac cyt aaa cog caq gat att aaa tto coq gyt agt gyt cag gtg 309 Thr Asn Arg Lys Pro Gln Asp The Lys Phe Pro Gly Ser Gly Gln Val 310 370 . . . 375 380 312 gtg ggt ggt gtg tac ctg gtg ccg cgt cgt ggt ccg taaggatce 1197 313 Val Gly Gly Val Tyr Leu Val Pro Arg Gly Pro

140

340 Leu Ala Asp Gly Gly Cys Ala Gly Gly Ala Tyr Asp Val Ile Gly Ser 341 65 70 75 80 344 Gly Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Val Pro Phe Tyr Gly 345 $$ 85 $$ 90 $$ 95 348 Arg Ala Ile Pro Ile Glu Ala Ile Lys Gly Gl, Arg His Leu Val Phe 349 \$100\$ 105 110352 Cys His Ser Lys Glu Lys Cys Asp Glu Leu Ala Ser Ala Leu Ser Gly 120

356 Leu Gly Leu Asn Ala Val Ala Phe Tyr Arg Gly Leu Asp Val Ser-Ile

360 Ile Pro Thr Gln Gly Asp Val Val Ile Val Ser Thr Asp Ala Leu Met

135

353 1.15

357 130



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/509,449

DATE: 02/22/2001 TIME: 12:05:51

Input Set : A:\ST25.txt
Output Set: N:\CRF3\02222001\I509449.raw